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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/919,641	07/31/2001	Richard Paul Ejzak	29	5726

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Docket Administrator (Room 3J-219)
Lucent Technologies Inc.
101 Crawfords Corner Road
Holmdel, NJ 07733-3030

EXAMINER

RAMPURIA, SHARAD K

ART UNIT	PAPER NUMBER
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2683

2

DATE MAILED: 05/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/919,641

Applicant(s)

EJZAK, RICHARD PAUL

Examiner

Sharad Rampuria

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Thakker, Roach, Emery et al., Wang et al.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bharatia (US 20010031635) in view of Surdila et al. (US 20020110104) (hereinafter Surdila).

1. Regarding Claim 1, Bharatia disclosed A method for registering (pg.7; 0111-0116) a mobile unit with a communication system including a serving system and a home system, the serving system comprising a mobile switching center (MSC) (162; fig.1B; pg.6; 0097) and the home system comprising a Gateway MSC (128; fig.1B; pg.2; 0091) and a Home Subscriber Server (HSS) (112; fig.1B; pg.2; 0084), the method comprising:

performing a location update procedure by the mobile unit; (pg.2; 0015-0016)

processing by the serving system the registration by authenticating the mobile unit and informing the HSS of the location of the current serving system; (pg.7; 0111-0116 & pg.6; 0101-0108) and

Bharatia fails to disclosed an interworking MSC (iMSC). However, Surdila teaches in an analogous art, that an interworking MSC (iMSC), the iMSC including at least one Media Gateway (MGW) that is controlled by the iMSC, determining that the serving system must process the mobile unit as an MSC. (pg.3; 0027 & 0030) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include an interworking MSC (iMSC) in order to provide access to multimedia services for a mobile terminal operating in a different network.

2. Regarding Claim 2, Bharatia disclosed A method for registering a mobile unit in accordance with claim 1, wherein the step of performing a location update procedure is done to indicate a change in the serving system. (pg.6; 0102 & pg.2; 0015-0016)

3. Regarding Claim 3, Bharatia disclosed A method for registering a mobile unit in accordance with claim 1, further comprising the step of originating a call with the serving system. (pg.7; 0111-0116)

4. Regarding Claim 4, Bharatia disclosed A method for registering a mobile unit in accordance with claim 3, wherein the step of originating a call with the serving system comprises: receiving a call request at the serving system; (pg.7; 0111-0116) and

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performing interworking between call control procedures in the serving system and a Public Switched Telephone Network (PSTN). (pg.5; 0088)

5. Regarding Claim 5, Bharatia disclosed all the particulars of the claim except the step of performing features and services for the mobile unit within the serving system. However, Surdila teaches in an analogous art, that A method for registering a mobile unit in accordance with claim 1, further comprising the step of performing features and services for the mobile unit within the serving system. (pg.3; 0027 & 0030) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the step of performing features and services for the mobile unit within the serving system in order to provide access to multimedia services for a mobile terminal operating in a different network.

6. Regarding Claim 6, Bharatia disclosed A method for registering a mobile unit in accordance with claim 1, further comprising the steps of: receiving a call termination by the home system; and forwarding the call termination to the serving system. (pg.4; 0075 & 0077)

7. Regarding Claim 7, Bharatia disclosed A method for registering (pg.7; 0111-0116) a mobile unit with a communication system including a serving system and a home system, the home system comprising a Gateway MSC (GMSC) (128; fig.1B; pg.2; 0091) and a Home Subscriber Server (HSS) (112; fig.1B; pg.2; 0084), the method comprising:

performing a location update procedure by the mobile unit; (pg.2; 0015-0016)

processing by the serving system the registration by authenticating the mobile unit and informing the HSS of the location of the current serving system; (pg.7; 0111-0116 & pg.6; 0101-0108)

Bharatia fails to disclosed an interworking MSC (iMSC). However, Surdila teaches in an analogous art, that the serving system comprising an interworking MSC (iMSC) and an Internet Protocol Multimedia Subsystem (IMS), determining that the serving system must process the mobile unit as an iMSC; and emulating the services of the MSC by the IMS. (pg.3; 0027 & 0030) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include an interworking MSC (iMSC) in order to provide access to multimedia services for a mobile terminal operating in a different network.

8. Regarding Claim 8, Bharatia disclosed A method for registering a mobile unit in accordance with claim 7, wherein the step of performing a location update procedure is done to indicate a change in the serving system. (pg.6; 0102 & pg.2; 0015-0016)

9. Regarding Claim 9, Bharatia disclosed A method for registering a mobile unit in accordance with claim 7, further comprising the step of originating a call with the serving system. (pg.7; 0111-0116)

10. Regarding Claim 10, Bharatia disclosed all the particulars of the claim except the step of performing features and services for the mobile unit within the serving system. However, Surdila teaches in an analogous art, that A method for registering a mobile unit in accordance with claim

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9, wherein the step of originating a call with the serving system comprises: receiving a call request at the serving system; performing interworking between call control procedures between the iMSC and IMS; forwarding the call to a Border Gateway Control Function (BGCF) and Media Gateway Control Function (MGCF); and interworking between the MGCF and a Public Switched Telephone Network (PSTN). (pg.3; 0030-0031) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the step of performing features and services for the mobile unit within the serving system in order to provide access to multimedia services for a mobile terminal operating in a different network.

11. Regarding Claim 11, Bharatia disclosed all the particulars of the claim except the step of performing features and services for the mobile unit within the serving system. However, Surdila teaches in an analogous art, that A method for registering a mobile unit in accordance with claim 7, further comprising the step of performing features and services for the mobile unit within the serving system. (pg.3; 0027 & 0030) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the step of performing features and services for the mobile unit within the serving system in order to provide access to multimedia services for a mobile terminal operating in a different network.

12. Regarding Claim 12, Bharatia disclosed A method for registering a mobile unit in accordance with claim 7, further comprising the steps of: receiving a call termination by the GMSC in the home system; forwarding the call termination to the IMS in the serving system; and forwarding the call termination to the iMSC in the serving system. (pg.4; 0075 & 0077 & pg.6; 0097)

13. Regarding Claim 13, Bharatia disclosed A method for registering a mobile unit in accordance with claim 12, wherein the step of forwarding the call termination to the IMS comprises:

forwarding the call termination from the GMSC to the MGCF; forwarding the call termination from the MGCF to the I-CSCF; and forwarding the call termination from the I-CSCF to the S-CSCF. (pg.4; 0075 & 0077 & pg.6; 0097)

14. Regarding Claim 14, Bharatia disclosed A method for registering (pg.7; 0111-0116) a mobile unit with a communication system including a serving system and a home system, the serving system comprising a mobile switching center (MSC) (162; fig.1B; pg.6; 0097), and a Home Subscriber Server (HSS) (112; fig.1B; pg.2; 0084), the method comprising:

performing a location update procedure by the mobile unit; (pg.2; 0015-0016)

processing by the serving system the registration by authenticating the mobile unit and informing the HSS of the location of the current serving system; (pg.7; 0111-0116 & pg.6; 0101-0108)

Bharatia fails to disclosed an Internet Protocol Multimedia Subsystem (IMS). However, Surdila teaches in an analogous art, that the home system comprising an Internet Protocol Multimedia Subsystem (IMS); determining that the serving system must process the mobile unit as an MSC; and emulating a Gateway MSC by the IMS. (pg.3; 0027 & 0030) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include an Internet Protocol Multimedia Subsystem (IMS) in order to provide access to multimedia services for a mobile terminal operating in a different network.

15. Regarding Claim 15, Bharatia disclosed A method for registering a mobile unit in accordance with claim 14, wherein the step of performing a location update procedure is done to indicate a change in the serving system. (pg.6; 0102 & pg.2; 0015-0016)

16. Regarding Claim 16, Bharatia disclosed A method for registering a mobile unit in accordance with claim 14, further comprising the step of originating a call with the serving system. (pg.7; 0111-0116)

17. Regarding Claim 17, Bharatia disclosed A method for registering a mobile unit in accordance with claim 16, wherein the step of originating a call with the serving system comprises:

receiving a call request at the serving system; (pg.7; 0111-0116) and

performing interworking between call control procedures in the serving system and a Public Switched Telephone Network (PSTN). (pg.5; 0088)

18. Regarding Claim 18, Bharatia disclosed all the particulars of the claim except the step of performing features and services for the mobile unit within the serving system. However, Surdila teaches in an analogous art, that A method for registering a mobile unit in accordance with claim 14, further comprising the step of performing features and services for the mobile unit within the serving system. (pg.3; 0027 & 0030) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the step of performing features and services for

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the mobile unit within the serving system in order to provide access to multimedia services for a mobile terminal operating in a different network.

19. Regarding Claim 19, Bharatia disclosed A method for registering a mobile unit in accordance with claim 14, further comprising the steps of: receiving a call terminations by the IMS in the home system; emulating GMSC call termination services; and forwarding the call termination to the serving system. (pg.4; 0075 & 0077 & pg.6; 0097)

20. Regarding Claim 20, Bharatia disclosed A method for registering a mobile unit in accordance with claim 19, wherein the step of forwarding the call termination to the serving system comprises:

forwarding the call termination from the S-CSCF to a BGCF; and forwarding the call termination from the BGCF to the MGCF for delivery to the MSC. (pg.4; 0075 & 0077 & pg.6; 0097)

21. Regarding Claim 21, Bharatia disclosed A method for registering (pg.7; 0111-0116) a mobile unit with a communication system including a serving system and a home system, the serving system comprising a mobile switching center (MSC) (162; fig.1B; pg.6; 0097) and a Home Subscriber Server (HSS) (112; fig.1B; pg.2; 0084), the method comprising:

performing a location update procedure by the mobile unit; (pg.2; 0015-0016)

processing by the serving system the registration by authenticating the mobile unit and informing the HSS of the location of the current serving system; (pg.7; 0111-0116 & pg.6; 0101-0108) and

Bharatia fails to disclosed an interworking MSC (iMSC). However, Surdila teaches in an analogous art, that the home system comprising an interworking MSC (iMSC), the home system comprising an Internet Protocol Multimedia Subsystem (IMS) and determining if the serving system can process the mobile unit as an iMSC. (pg.3; 0027 & 0030) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include an interworking MSC (iMSC) in order to provide access to multimedia services for a mobile terminal operating in a different network.

22. Regarding Claim 22, Bharatia disclosed A method for registering a mobile unit in accordance with claim 21, wherein the step of performing a location update procedure is done to indicate a change in the serving system. (pg.6; 0102 & pg.2; 0015-0016)

23. Regarding Claim 23, Bharatia disclosed A method for registering a mobile unit in accordance with claim 21, further comprising the step of originating a call with the serving system. (pg.7; 0111-0116)

24. Regarding Claim 24, Bharatia disclosed A method for registering a mobile unit in accordance with claim 23, wherein the step of originating a call with the serving system comprises: receiving a call request at the serving system; performing interworking between call control procedures by

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the iMSC in the serving system and the IMS in the home system; and forwarding the call from the IMS to the called party. (pg.4; 0075 & 0077 & pg.6; 0097)

25. Regarding Claim 25, Bharatia disclosed all the particulars of the claim except the step of performing features and services for the mobile unit within the serving system. However, Surdila teaches in an analogous art, that A method for registering a mobile unit in accordance with claim 21, further comprising the step of performing features and services for the mobile unit within the serving system. (pg.3; 0027 & 0030) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the step of performing features and services for the mobile unit within the serving system in order to provide access to multimedia services for a mobile terminal operating in a different network.

26. Regarding Claim 26, Bharatia disclosed A method for registering a mobile unit in accordance with claim 21, further comprising the steps of: receiving a call termination by the IMS in the home system; and forwarding the call termination to the iMSC in the serving system. (pg.4; 0075 & 0077 & pg.6; 0097)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is 703-308-4736. The examiner can normally be reached on Mon-Fri. (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 703-308-5318. The fax phone numbers for the

Application/Control Number: 09/919,641

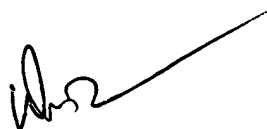
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organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

Sharad Rampuria
May 10, 2004



WILLIAM TROST
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